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- 6. (Amended) The assay according to claim 1 wherein said assay is used to identify compounds that disrupt normal membrane receptor interactions, or can in themselves disrupt such interactions.
- 7. (Amended) The assay according to claim 1 for detecting a compound which serves as an inverse agonist, antagonist or agonist of the membrane receptor.
- 9. (Amended) The assay according to claim 1 wherein said membrane receptor is a growth factor receptor, cytokine receptor, ion channel, integrin, or G-protein receptor.
- 13. (Amended) The assay according to claim 9 wherein said G-protein coupled receptor is a dopamine receptor, a muscarinic cholinergic receptor, an α -adrenergic receptor, a β -adrenergic receptor, an opiate receptor, a cannabinoid receptor, a serotonin receptor or a protease activated receptor.
- 14. (Amended) The assay according to claim 1 wherein the receptor/reporter fusion protein is expressed from nucleic acid construct comprising a gene encoding said reporter protein which is fused in-frame to the 5' or 3' end of a gene encoding said membrane receptor.
- 15. (Amended) The assay according to claim 1 wherein the functionality of said membrane receptor/reporter fusion protein is substantially unaffected by fusion of the reporter protein to the receptor.
- 16. (Amended) The assay according to claim 15 wherein said reporter protein is Green Fluorescent Protein (GFP), or active variant thereof.

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18. (Amended) The assay according to claim 15 wherein said reporter protein is *Renilla reniformis* (sea pansy) luciferase protein, secreted placental alkaline phosphatase

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(SEAP), β-lactamase, galactosidase, firefly (*Photinus pyralis*) luciferase, blue fluorescent protein, yellow fluorescent protein, and cyan fluorescent protein.

- 20. (Amended) The assay according to claim 1 wherein said reporter protein is used to localize and/or quantify the membrane receptor.
- 21. (Amended) An assay according to claim 20 wherein any change of said membrane receptor/reporter fusion protein is detected as a change in cellular localisation of the receptor/reporter fusion protein, or semi-quantitatively by the synthesis or degradation of said receptor/reporter fusion protein.
- 22. (Amended) An assay according to claim 1 wherein said detection of any change of said membrane receptor/reporter fusion protein is carried out with cells placed on the surface of a microscope slide.
- 23. (Amended) The assay according to claim 1 wherein said detection of any change of said membrane receptor/reporter fusion protein is carried out on cells placed in a well of a microtitre plate.

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29. (Amended) The membrane receptor/reporter fusion protein according to claim 28 wherein the reporter protein is GFP or luciferase.

Please add the following new claim.

32. (Amended) The membrane receptor/reporter fusion protein according to claim 27 wherein the reporter protein is GFP or luciferase.